**IN THE CLAIMS:** 

Please amend the claims as follows:

Claim 1 (Original): A protective cap (2) for a temperature measurement probe (30) of an

infrared radiation thermometer (1) introducible into a body cavity (31), said cap being comprised

of a base body (12) shaped to fit the body cavity (31) and having a window (15) transparent to

infrared radiation,

characterized in that the base body (12) is provided with additional structures (13; 18, 20)

at least in parts to improve heat insulation between the temperature measurement probe (30) and

the body cavity (31).

Claim 2 (Original): The protective cap as claimed in claim 1, characterized in that the

base body (12) is fabricated from plastic material and that the additional structures (13; 18, 20)

are formed of soft, porous foamed plastic material (13).

Claim 3 (Currently Amended): The protective cap as claimed in claim 1, characterized in

that the additional structures are formed of [[0]] one or several air chambers (18, 20).

Claim 4 (Currently Amended): The protective cap as claimed in claim 3, characterized in

that the <u>several</u> air <u>chambers are</u> <del>chamber(s)</del> (are) formed by foamed plastic (13) having closed

pores.

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Claim 5 (Currently Amended): The protective cap as claimed in claim 3, characterized in

that the several air chambers have their outsides air chamber(s) (18, 20) has (have) its (their)

outside (s) close to the body cavity bounded by a flexible film.

Claim 6 (Currently Amended): The protective cap as claimed in claim 3, characterized in

that the <u>several air chambers have their outsides</u> air chamber (s) (18, 20) has (have) its (their)

outside (s) bounded by a flexible outer film fabricated from plastic, preferably polypropylene

(PP) or polyethylene (PE).

Claim 7 (Currently Amended): The protective cap as claimed in claim 3, characterized in

that the air chambers are chamber(s) (18, 20) is (are) subdivided by fin members (22, 23; 25).

Claim 8 (Original): The protective cap as claimed in claim 7, characterized in that the fin

members (22, 23) are formed of foamed plastic material.

Claim 9 (Original): The protective cap as claimed in claim 2, characterized in that the

window is formed of a window film (15) transparent to infrared radiation.

Claim 10 (Currently Amended): The protective cap as claimed in claim 9, characterized

in that the window film (15) is stretched tight in the area of the window by a holding device (26)

means of a holding device (26).

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Claim 11 (Cancelled).

Claim 12 (Currently Amended): The protective cap as claimed in claim 10 [[11]], characterized in that the holding device elamping device (26) is clamped upon the end of [[the]] a tubular base body (12) closed by the window.

Claim 13 (Original): The protective cap as claimed in claim 1, characterized in that the entire body base (12) is provided with thermally insulative means (13; 18, 20), and that the window is reduced to the thickness of an infrared transmitting film by hot pressing or hot stamping.

Claim 14 (Currently Amended): The protective cap as claimed in claim 1, characterized in that the base body (12) is formed of plastic material, preferably polyethylene (PE) or polypropylene (PP).

Claim 15 (Currently Amended): The protective cap as claimed in claim 2, characterized in that the thermally insulating foamed plastic (13) is preferably made of polyethylene (PE), polyvinyl or polyurethane (PU).

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Claim 16 (Currently Amended): The protective cap as claimed in claim 1, characterized

in that the base body (12) of the protective cap (2), prior to being applied to the temperature

measurement probe (30), is not as yet shaped to fit the body cavity (31) and that it is made of a

material that is expandable so such as to be stretched to the this particular shape only when being

fitted over the temperature measurement probe (30).

Claim 17 (Currently Amended): A protective cap for a temperature measurement probe

(30) of an infrared radiation thermometer (1) introducible into a body cavity (31), said cap being

shaped to fit the body cavity (31) and having a window (15) transparent to infrared radiation,

characterized in that the protective cap (2) is fabricated from a thermally insulating material and

that a forming operation is used to bring the window (15) to the thickness transmissive to

infrared radiation.

Claim 18 (Original): The protective cap as claimed in claim 17, characterized in that the

forming operation is a hot pressing or hot stamping operation.

Claim 19 (Previously Presented): The protective cap as claimed in claim 4, characterized

in that the window is formed of a window film (15) transparent to infrared radiation.

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